

Claim Listing

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method ~~for medical treatment~~ comprising:
~~applying to tissue, cells, or medical devices~~ an aqueous solution comprising a polymerizable biodegradable polymer mixture, said mixture comprising a first derivatized polysaccharide of dextran and a second derivatized polysaccharide of hyaluronan; and,
~~polymerizing the derivatized polymers onto [[a]] the tissue, cell, or medical device wherein the derivatized dextran portion of the resulting gel comprises a water-soluble region and the derivatized hyaluronan portion of the resulting gel is enzymatically degradable comprising a portion that can be degraded by enzymes.~~
2. (Currently Amended) The method according to claim 1 wherein the ~~treatment of a medical condition is selected from the group consisting of a method provides controlled drug delivery, coating an implant, coating cells, coating medical devices for insertion into a patient, and providing a support for tissue.~~
3. Cancelled.
- 4-13. Cancelled.
14. (New) The method according to claim 1, wherein the resulting gel provides support for the tissue.
15. (New) The method according to claim 1, the aqueous solution further comprising a compound, wherein said compound becomes entrapped within said resulting gel.
16. (New) The method according to claim 15, wherein the compound is covalently bound to the first derivatized polysaccharide of dextran or to the second derivatized polysaccharide of hyaluronan.
17. (New) The method according to claim 1, wherein the tissue is a portion of a blood vessel, an organ, or a bone.
18. (New) A method comprising:

applying to cells an aqueous solution comprising a polymerizable biodegradable polymer mixture, said mixture comprising a first derivatized polysaccharide of dextran and a second derivatized polysaccharide of hyaluronan; and,

polymerizing the derivatized polymers onto the cells wherein the derivatized dextran portion of the resulting gel comprises a water-soluble region and the derivatized hyaluronan portion of the resulting gel can be degraded by enzymes.

19. (New) The method according to claim 18, the aqueous solution further comprising a compound, wherein said compound becomes entrapped within said resulting gel.

20. (New) A method comprising:

applying to a medical device an aqueous solution comprising a polymerizable biodegradable polymer mixture, said mixture comprising a first derivatized polysaccharide of dextran and a second derivatized polysaccharide of hyaluronan; and,

polymerizing the derivatized polymers onto the medical device wherein the derivatized dextran portion of the resulting gel comprises a water-soluble region and the derivatized hyaluronan portion of the resulting gel can be degraded by enzymes.

21. (New) The method according to claim 20, wherein the mixture is applied to the medical device prior to insertion of the device into a patient.

22. (New) The method according to claim 20, wherein the method provides controlled drug delivery.

23. (New) The method according to claim 20, wherein the medical device is selected from the group consisting of an implant, a vascular graft, a dilatory stent, and a catheter.

24. (New) The method according to claim 20, the aqueous solution further comprising a compound, wherein said compound becomes entrapped within said resulting gel.

25. (New) The method according to claim 24, wherein the compound is covalently bound to the first derivatized polysaccharide of dextran or to the second derivatized polysaccharide of hyaluronan.